IN THE CLAIMS

Please amend the claims as follows:

- (Cancelled).
- (Currently Amended) A method of presenting an antigenic peptide on the surface of a viable cancer cell, said method comprising:

contacting said cancer cell with said antigenic peptide and with a photosensitizing agent ex-vivo, wherein said peptide and said agent are each taken up into an intracellular membrane-restricted compartment of said cell;

irradiating said cell <u>ex vivo</u> with light of a wavelength effective to activate the photosensitizing agent, such that the membrane of said intracellular compartment is disrupted, releasing said peptide into the cytosol of the cell, without killing the cell;

wherein, said released antigenic peptide, or a part thereof of sufficient size to stimulate a cytotoxic T cell response, is subsequently presented on the surface of said cell by a class I MHC molecule;

administering the cell to a mammal after irradiating said cell;

wherein presentation of the antigenic peptide, or part thereof, on the surface of said cell results in cytotoxic T cell mediated cell killing by a cytotoxic T cell specific for said antigenic peptide or a part thereof; and

wherein the photosensitizing agent is selected from the group consisting of a porphyrin, phthalocyanine and a chlorin.

- (Cancelled).
- (Previously Presented) The method of claim 2, wherein the antigenic peptide is a vaccine antigen or vaccine component.
- 5-7. (Cancelled).

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Title: METHOD OF VACCINATION

8. (Previously Presented) The method of claim 2 wherein the photosensitizing agent is

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meso-tetraphenylporphine with 4 sulfonate groups (TPPS₄), meso-tetraphenylporphine with 2 sulfonate groups on adjacent phenyl rings (TPPS_{2a}), or aluminum phthalocyanine with 2

sulfonate groups on adjacent phenyl rings (AlPcS2a).

9. (Previously Presented) The method of claim 2, wherein the antigenic peptide and/or

photosensitizing agent is bound to one or more targeting agents or carrier molecules.

10. (Canceled).

11-27. (Canceled).

28. (Previously Presented) The method of claim 2, wherein at least 90% of the cells

are not killed.

29. (Previously Presented) The method of claim 2, wherein at least 95% of the cells

are not killed.

30. (Previously Presented) The method of claim 2, wherein the photosensitizing

agent is a sulfonated tetraphenylporphine, a disulfonated aluminum phthalocyanine or a

tetrasulfonated aluminum phthalocyanine.

(Canceled)

32. (Canceled)

33-36. (Canceled)

- (Cancelled)
- 38-40. (Canceled)
- (Previously Presented) The method of claim 2, wherein the antigenic peptide stimulates cytotoxic T cells.
- (Canceled).
- 43. (New) An in vitro method of presenting an antigenic peptide on the surface of a viable cancer cell and killing said cell by cytotoxic T cell mediated cell killing, said method comprising:

contacting said cancer cell with said antigenic peptide and with a photosensitizing agent, wherein said peptide and said agent are each taken up into an intracellular membrane-restricted compartment of said cell;

irradiating said cell with light of a wavelength effective to activate the photosensitizing agent, such that the membrane of said intracellular compartment is disrupted, releasing said peptide into the cytosol of the cell, without killing the cell;

wherein said released antigenic peptide, or a part thereof of sufficient size to stimulate a cytotoxic T cell response, is subsequently presented on the surface of said cell by a class I MHC molecule:

wherein presentation of the antigenic peptide, or part thereof, on the surface of said cell results in cytotoxic T cell mediated cell killing by a cytotoxic T cell specific for said antigenic peptide or a part thereof; and

wherein the photosensitizing agent is selected from the group consisting of a porphyrin, phthalocyanine and a chlorin.

44. (New) The method of claim 43, wherein the antigenic peptide is a vaccine antigen or vaccine component.

- 45. (New) The method of claim 43, wherein the photosensitizing agent is meso-tetraphenylporphine with 4 sulfonate groups (TPPS₄), meso-tetraphenylporphine with 2 sulfonate groups on adjacent phenyl rings (TPPS_{2a}), or aluminum phthalocyanine with 2 sulfonate groups on adjacent phenyl rings (AlPcS_{2a}).
- 46. (New) The method of claim 43, wherein the antigenic peptide and/or photosensitizing agent is bound to one or more targeting agents or carrier molecules.
- 47. (New) The method of claim 43, wherein at least 90% of the cells are not killed.
- 48. (New) The method of claim 43, wherein at least 95% of the cells are not killed.
- 49. (New) The method of claim 43, wherein the photosensitizing agent is a sulfonated tetraphenylporphine, a disulfonated aluminum phthalocyanine or a tetrasulfonated aluminum phthalocyanine.
- (New) The method of claim 43, wherein the antigenic peptide stimulates cytotoxic T cells.